

**PWM Controller for Dual Boost Converter with LDO****Features**

- 11 V to 27 V Input Supply Voltage Range
- Two Step-up Regulator Controllers
  - . Peak-Current Mode Control – Fast Transient
  - . 100 kHz to 400 kHz Adjustable Switching Frequency
  - . 10 V Gate Drive Output
- 10 V, 120 mA LDO
- 5 V LDO
- Programmable UVLO and Hysteresis
- Programmable Soft Start
- Sequential Start-up with Programmable Delay
- Open Drain Power Good Signal
- Disable Function
- Protections
  - . Step-up Regulator Controllers Overvoltage Protection
  - . Step-up Regulator Controllers Overcurrent Protection
  - . Thermal Shut Down Protection

**Applications**

- LCD TV LED Backlighting

**Description**

The SM1202 consists of two step-up switching regulator controllers and two low-dropout voltage regulators (LDO). The step-up switching regulator controllers drive external MOSFETs to provide the regulated supply voltages for LED strings of the LCD TV backlight unit. The switching frequency is programmable using an external resistor, and the LDO provides the logic voltage for the system. The device is optimized for thin-film transistor (TFT) liquid crystal display (LCD) applications.

**Device Information**

Part	Package	Size
SM1202	32 QFN	5 mm x 5 mm

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